



Gulf of Mexico Harmful Algal Bloom Bulletin

28 November 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: November 28, 2005

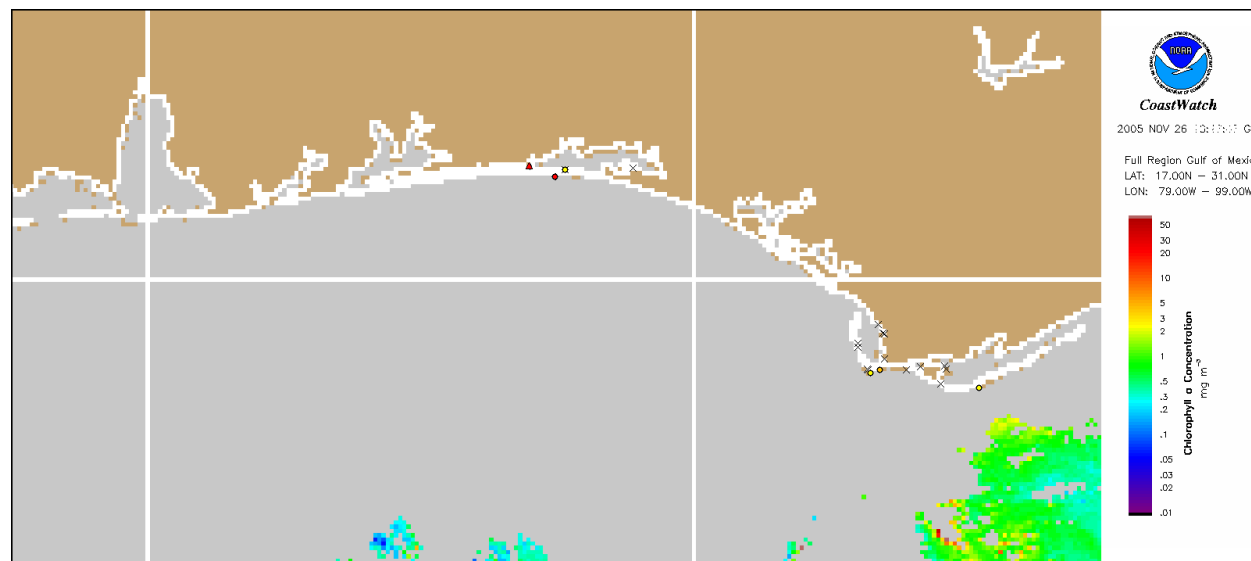
Conditions: Harmful algal blooms have been identified in patches along SW Florida from Pinellas to Lee County and from Dixie to Levy County. Patchy low to moderate impacts are possible in Sarasota, Charlotte, Lee and Levy Counties on Tuesday, with patchy very low to low impacts today and Wednesday. Patchy very low to low impacts possible in Pinellas, Manatee and Dixie Counties today through Wednesday. A second bloom has been identified in patches from Wakulla to Okaloosa County. Patchy moderate impacts possible from Okaloosa to Bay County on Tuesday, with very low impacts likely from Gulf to Wakulla County. Patchy very low to low impacts possible from Wakulla to Okaloosa County today and Wednesday. No reports of dead fish have been received over the past few days. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as harmful algal blooms.

Analysis: The bloom remains in patches along the Florida Panhandle. Very low concentrations of *K. brevis* were found at Sikes Cut, Franklin County on 11/22; no *K. brevis* was found in southern Gulf County. Recent satellite imagery is obscured by clouds. Although present bloom extents cannot be determined, wind transport model analyses indicate westward bloom movement up to 20km since 11/24. Continued sampling recommended. Strong onshore winds through tonight will increase impacts along the coast; minimal effects likely Tuesday and Wednesday as winds shift offshore. No significant change in bloom location or extent expected through Thursday.

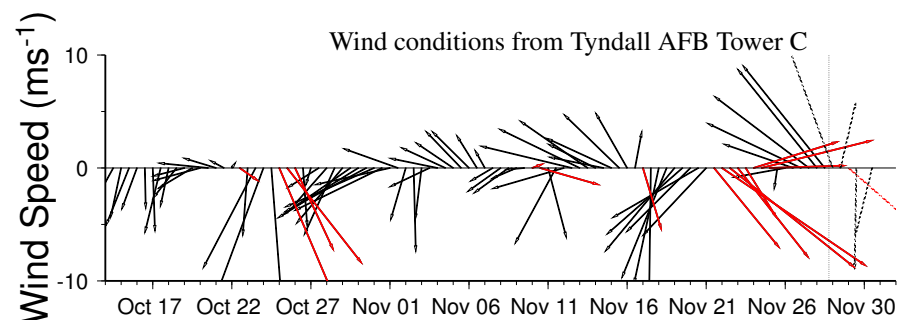
~Fisher, Bronder

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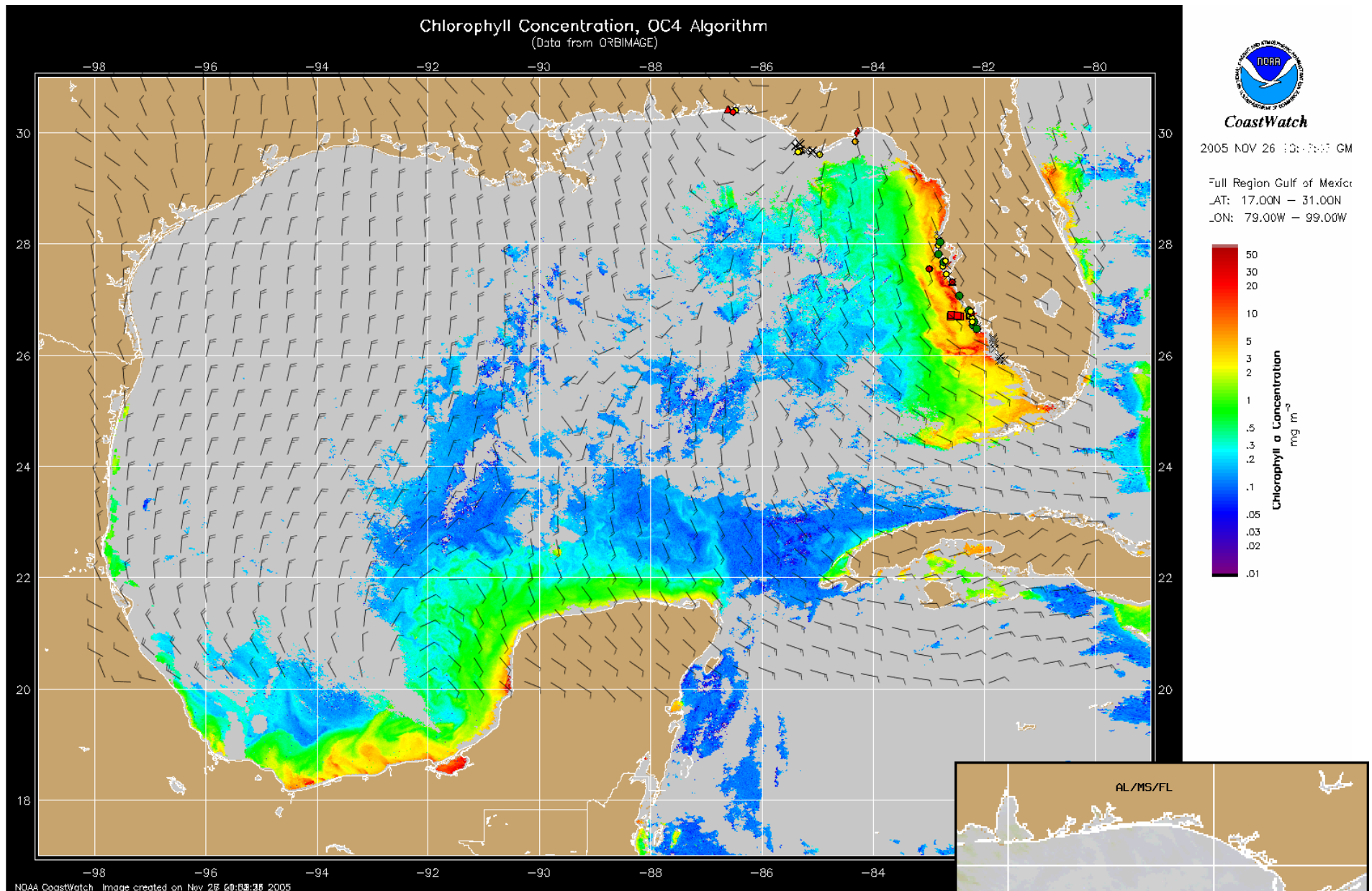


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Panhandle: Strong and variable southerlies (20-25kts, 10-13m/s) today, shifting northwesterly Tuesday and weakening to 15-20kts (8-10m/s). Northerly winds Tuesday night through Wednesday (15-20kts, 8-10m/s).



Chlorophyll concentration from satellite and forecast winds for November 29, 2005 12Z with cell concentration sampling data from November 23, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)